VIRTUAL MACHINE SUPPORT FOR MULTIPLE APPLICATIONS

Abstract

5   A computer system runs a virtual machine which is typically capable of supporting only a single application. In order to run multiple applications on it, a single environment application is first started running on the virtual machine. Then, one or more applications

10   are loaded into said environment application as compiled code. The loading includes scanning the compiled code for predetermined instructions, and making a modification to such predetermined instructions to call back to the environment application. This allows certain problematic

15   instructions from the application, such as those which attempt to shut down the virtual machine, to be replaced. Each of the one or more applications is assigned to a separate thread within the environment application. This allows the one or more applications to be run by running

20   their assigned threads within the environment application. The effect of this is that the one or more applications appear to the virtual machine as part of the environment application, in other words as if only one application in total were running on the virtual machine.

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